

# NOvA Operations Status

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# Detector Operations

12/07 — 12/13

## **362 minutes FarDet DAQ downtime**

*All (10) instances begun by same error message, which references our Data Logger. Computing Division is currently working with us to resolve Data Logger instabilities. (Note: this is responsible for ~3.9% (absolute) of this week's downtime.)*

## **~60 minutes of Spill Server downtime**

*TDU got stuck issuing the 1 Hz and NuMI triggers (~50 Hz NuMI trigger!); after scrubbing it, brought system back online, restarted runs, all was back to normal.*

## **Maintenance work (last Wed)**

**FD:** Replaced 5 FEBs, two APDs at FD (routine maintenance of noisy channels)

Replaced 'bellows' unit on CRU1 (computing farm cooling system)

**ND:** Replace 1 FEB, six APDs (routine maintenance of noisy channels)

## **Maintenance work (today)**

**FD:** Took advantage of the beam downtime to replace two APDs and two FEBs

# Picture of replaced CRU1 Bellows

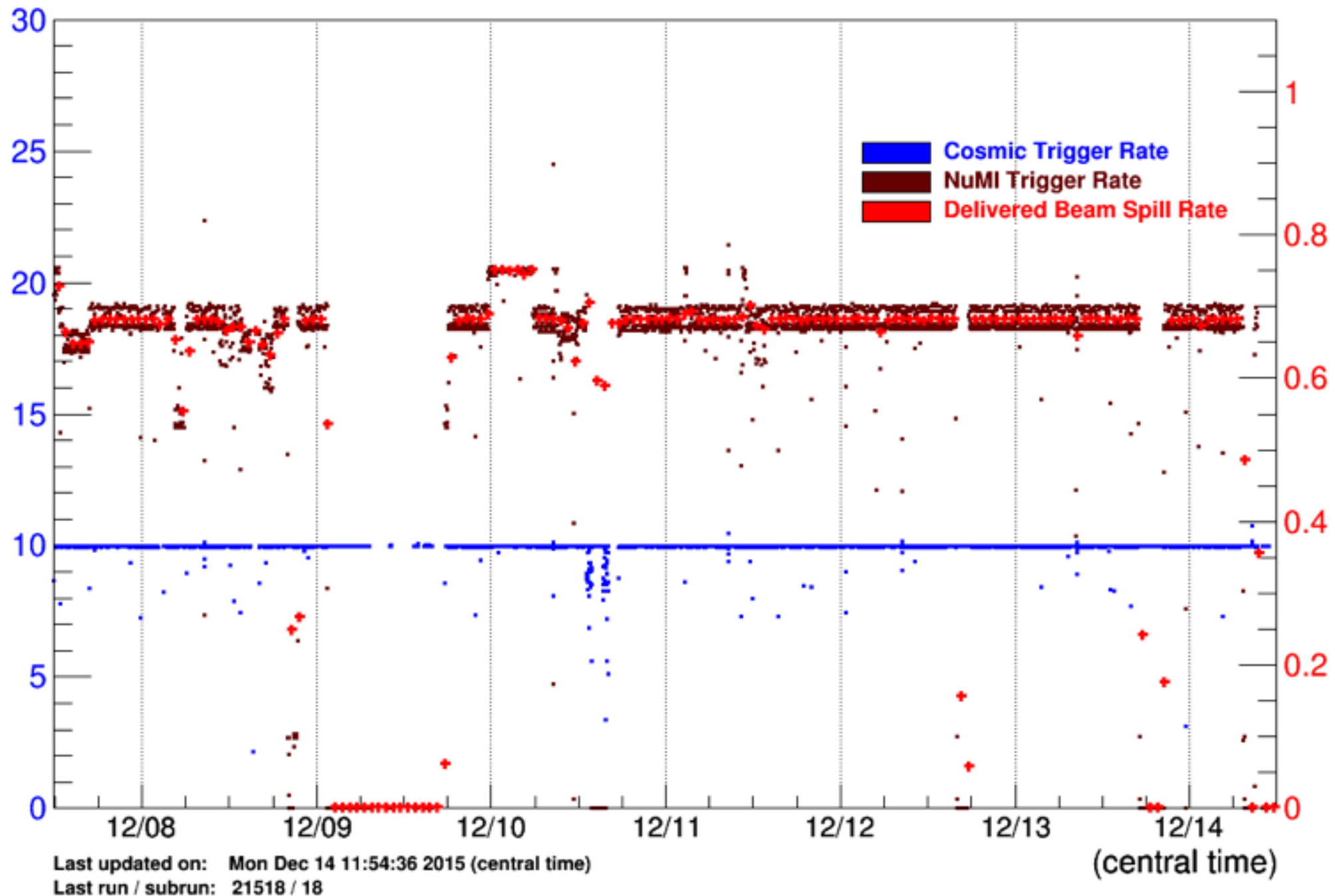


The bellows leak wasn't a big issue, but I thought that this was a neat sidebar.

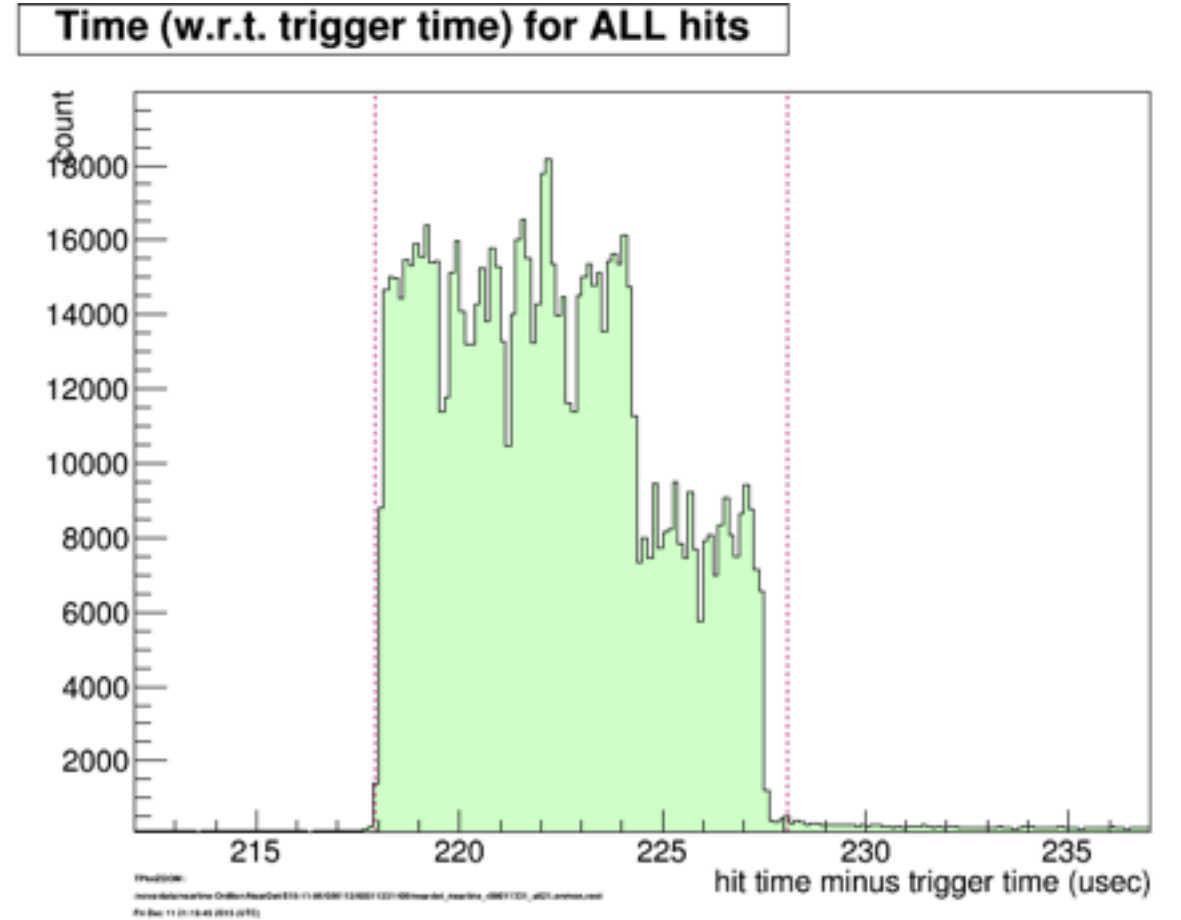
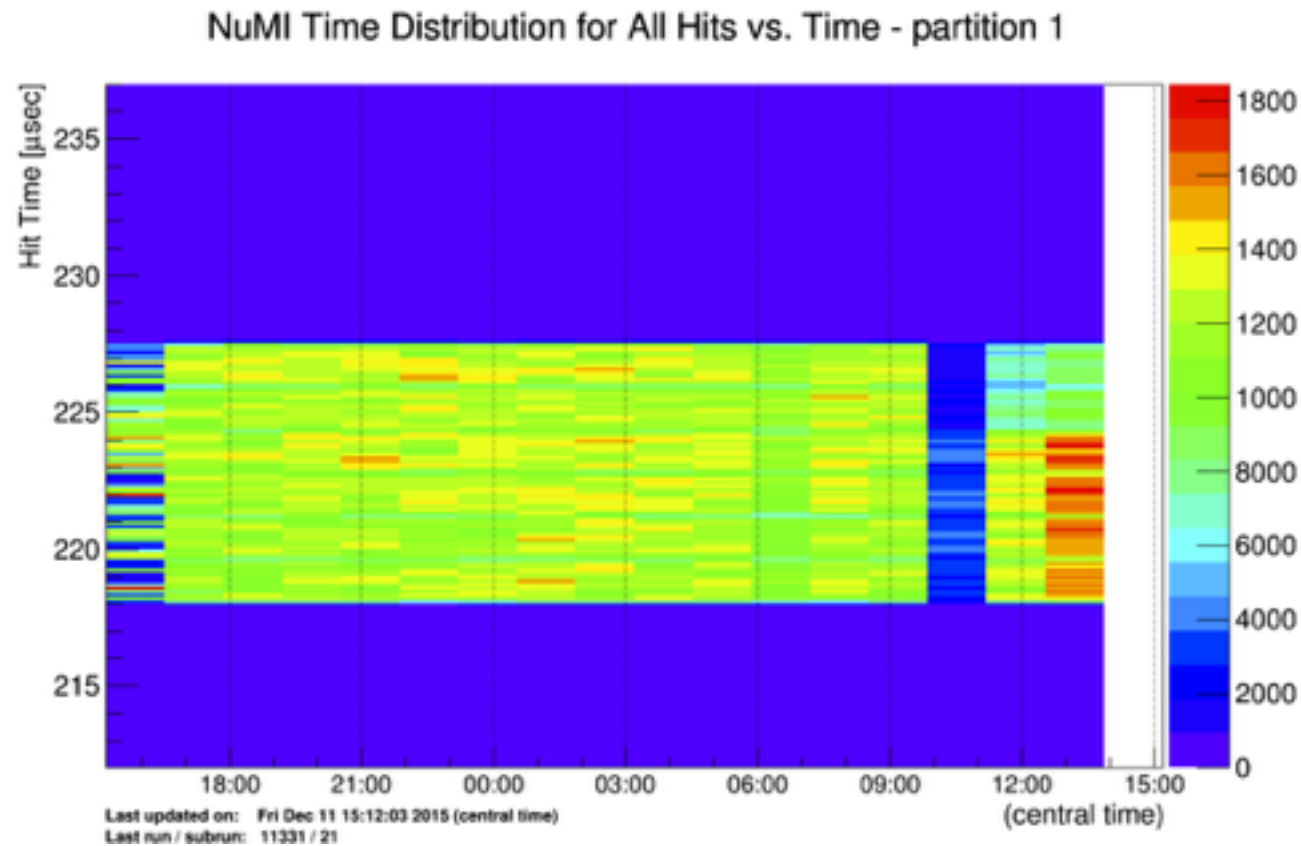
From Ash River tech Charles Cadeau:  
*"CRU1 Leaky Bellows was replaced without issue. Below pic shows how deformed the bellows becomes over time while under pressure and then it begins to leak from the bowed area between the bolt holes."*

# FarDet recorded 95.5% of delivered POT last week

Average Trigger and Spill Rates (Hz) - partition 1



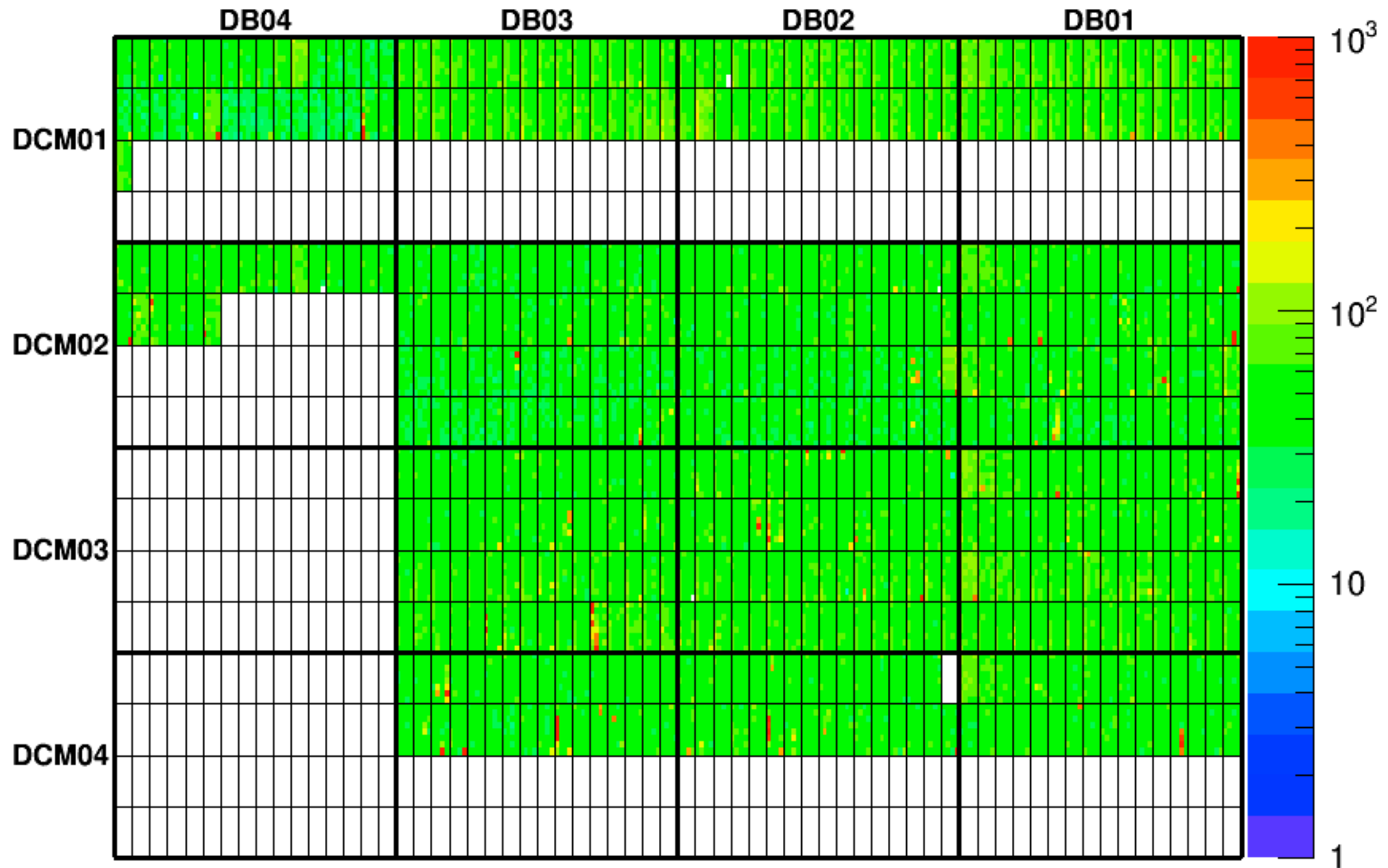
# 4+6 slip stacking!



Taken from Friday afternoon's 4+6 slip-stacking test

# NearDet FEB Hit Rates (by pixel)

Hit rate recorded by Pixel in Hz

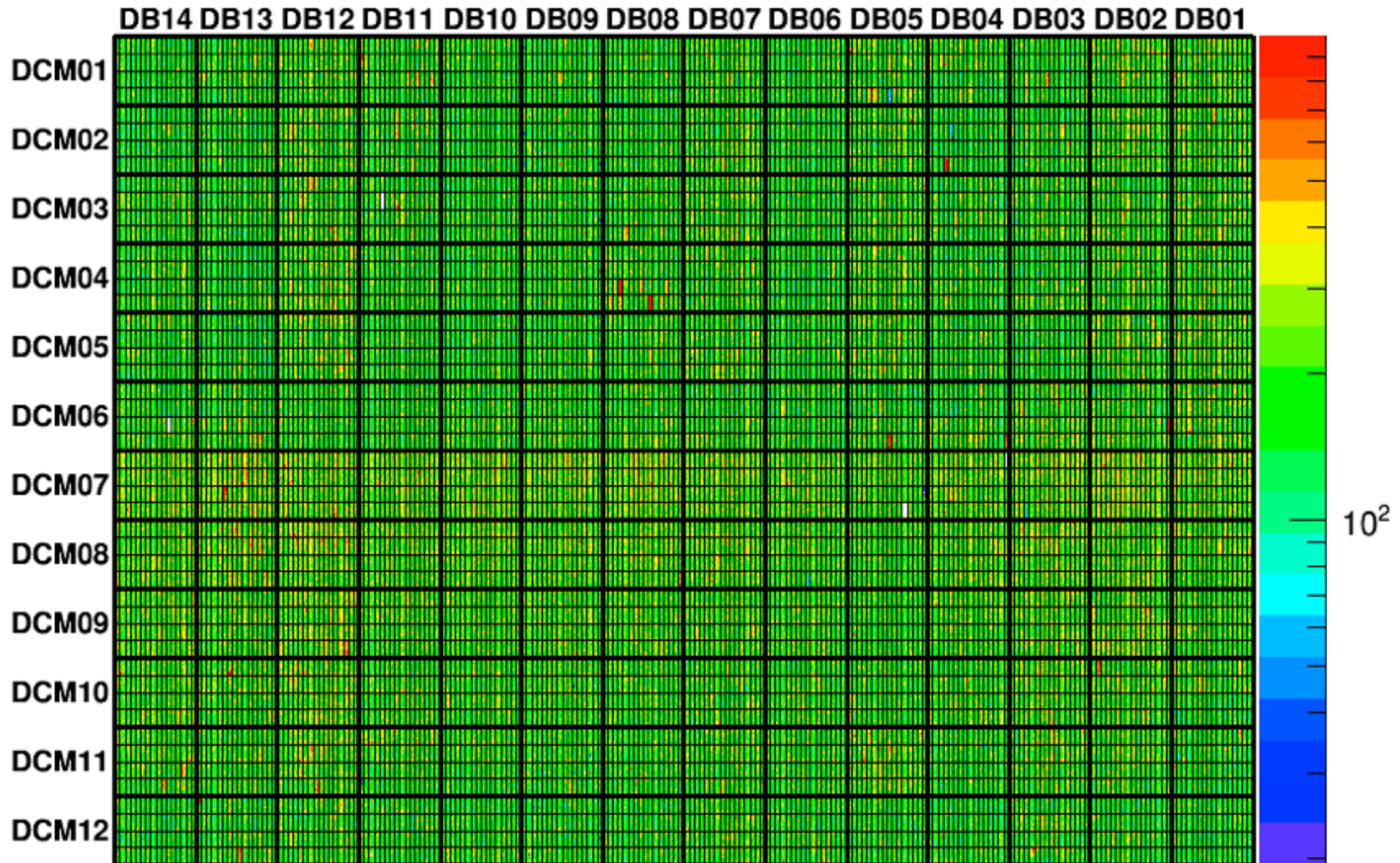




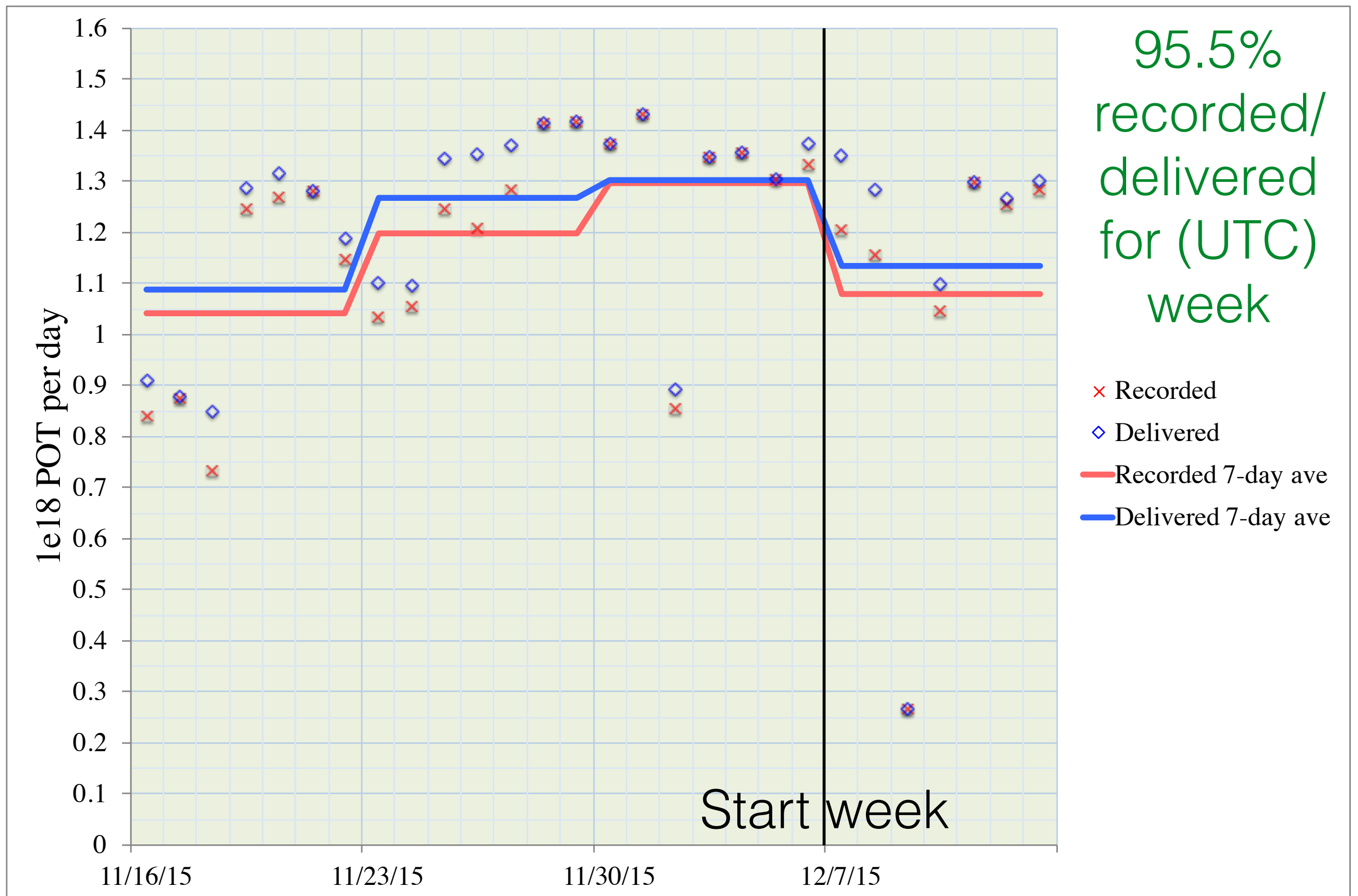
# FarDet: FEB Hit Rates (by pixel)

Hit rate recorded by Pixel in Hz

(< 0.2 % issue channels)



# FD: Accumulated POTs





# FD: Protons Recorded / Delivered

